

**MUHLENBERG COUNTY REPORT
OF
ENDANGERED, THREATENED, AND SPECIAL CONCERN
PLANTS, ANIMALS, AND NATURAL COMMUNITIES
OF
KENTUCKY**

**KENTUCKY STATE NATURE
PRESERVES COMMISSION
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Kentucky State Nature Preserves Commission

Key for County List Report

Within a county, elements are arranged first by taxonomic complexity (plants first, natural communities last), and second by scientific name. A key to status, ranks, and count data fields follows.

STATUS

KSNPC: Kentucky State Nature Preserves Commission status:

N or blank = none E = endangered T = threatened S = special concern H = historic X = extirpated

USESA: U.S. Fish and Wildlife Service status:

blank = none C = candidate LT = listed as threatened LE = listed as endangered

SOMC = Species of Management Concern

RANKS

GRANK: Estimate of element abundance on a global scale:

G1 = Critically imperiled

GU = Unrankable

G2 = Imperiled

G#? = Inexact rank (e.g. G2?)

G3 = Vulnerable

G#Q = Questionable taxonomy

G4 = Apparently secure

G#T# = Intraspecific taxa (Subspecies and variety abundances are coded with a 'T' suffix; the 'G' portion of the rank then refers to the entire species)

G5 = Secure

GH = Historic, possibly extinct

GNR = Unranked

GX = Presumed extinct

GNA = Not applicable

SRANK: Estimate of element abundance in Kentucky:

S1 = Critically imperiled

SU = Unrankable

S2 = Imperiled

S#? = Inexact rank (e.g. G2?)

S3 = Vulnerable

S#Q = Questionable taxonomy

S4 = Apparently secure

S#T# = Intraspecific taxa

S5 = Secure

SNR = Unranked

SH = Historic, possibly extirpated

SNA = Not applicable

SX = Presumed extirpated

Migratory species may have separate ranks for different population segments (e.g. S1B, S2N, S4M):

S#B = Rank of breeding population

S#N = Rank of non-breeding population

S#M = Rank of transient population

COUNT DATA FIELDS

OF OCCURRENCES: Number of occurrences of a particular element from a county. Column headings are as follows:

E - currently reported from the county

H - reported from the county but not seen for at least 20 years

F - reported from county & cannot be relocated but for which further inventory is needed

X - known to be extirpated from the county

U - reported from a county but cannot be mapped to a quadrangle or exact location.

The data from which the county report is generated is continually updated. The date on which the report was created is in the report footer. Contact KSNPC for a current copy of the report.

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed, and new species of plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

KSNPC appreciates the submission of any endangered species data for Kentucky from field observations. For information on data reporting or other data services provided by KSNPC, please contact the Data Manager at:

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County	Taxonomic Group	Scientific name	Common name	Statuses	Ranks	# of Occurrences				
						E	H	F	X	U
Muhlenberg	Vascular Plants	<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i>	Eastern Blue-star	E /	G5T3Q / S2?	1	0	0	0	0
	Wet meadows, fields and ditches; also floodplain forests and moist, rich slope forests (Weakley 1998).									
Muhlenberg	Vascular Plants	<i>Carya aquatica</i>	Water Hickory	T /	G5 / S2S3	1	1	0	0	0
	Bottomlands and floodplain swamps.									
Muhlenberg	Vascular Plants	<i>Dodecatheon frenchii</i>	French's Shooting Star	S /	G3 / S3	1	0	0	0	0
	OCCURS ON OR UNDER SHADED CLIFFS, SUCH AS SANDSTONE ROCKHOUSES, SOUTH OF THE GLACIAL BOUNDARY (GLEASON & CRONQUIST 1991).									
Muhlenberg	Vascular Plants	<i>Trifolium reflexum</i>	Buffalo Clover	E /	G3G4 / S1S2	0	1	0	0	0
	Prairies and disturbed openings either associated with forests or opportunistically in fields or well-drained sites.									
Muhlenberg	Vascular Plants	<i>Zizaniopsis miliacea</i>	Southern Wild Rice	T /	G5 / S1S2	1	1	0	0	0
	Swamps and stream margins.									
Muhlenberg	Freshwater Mussels	<i>Cyprogenia stegaria</i>	Fanshell	E / LE	G1 / S1	2	1	0	0	0
	MEDIUM TO LARGE STREAMS AND RIVERS WITH MODERATE TO STRONG CURRENT IN COARSE SAND AND GRAVEL AND DEPTH RANGING FROM SHALLOW TO DEEP (GOODRICH AND VAN DER SCHALIE 1944, NEEL AND ALLEN 1964, PARMALEE 1967, JOHNSON 1980, GORDON AND LAYZER 1989).									
Muhlenberg	Freshwater Mussels	<i>Epioblasma obliquata obliquata</i>	Catspaw	E / LE	G1T1 / S1	0	1	0	0	0
	INHABITS MEDIUM TO LARGE RIVERS IN RIFFLES, SHOALS, AND/OR DEEP WATER IN SWIFT CURRENT (BOGAN AND PARMALEE 1983, PARMALEE 1967, WILSON AND CLARK 1914).									
Muhlenberg	Freshwater Mussels	<i>Pleurobema rubrum</i>	Pyramid Pigtoe	E / SOMC	G2 / S1	2	1	0	0	0
	INHABITS MEDIUM TO LARGE RIVERS AND USUALLY OCCURS IN SAND OR GRAVEL BOTTOMS IN DEEP WATERS (AHLSTEDT 1984, MURRAY AND LEONARD 1962, PARMALEE ET AL. 1982).									
Muhlenberg	Freshwater Mussels	<i>Villosa lienosa</i>	Little Spectaclecase	S /	G5 / S3S4	2	0	1	0	0
	INHABITS SMALL TO MEDIUM-SIZED RIVERS, USUALLY IN SHALLOW WATER ON A SAND/MUD/DETRITUS BOTTOM (PARMALEE 1967, GORDON AND LAYZER 1989).									
Muhlenberg	Fishes	<i>Erimyzon sucetta</i>	Lake Chubsucker	T /	G5 / S2	0	2	0	0	0
	LOWLAND LENTIC HABITATS (WETLANDS AND FLOODPLAIN LAKES) WITH SUBMERGENT AND FLOATING VEGETATION (BURR AND WARREN 1986, ETNIER AND STARNES 1993).									
Muhlenberg	Fishes	<i>Hybopsis amnis</i>	Pallid Shiner	E / SOMC	G4 / S1	0	1	0	0	0
	Sandy and silty pools of medium to large rivers (page and Burr 1991).									
Muhlenberg	Fishes	<i>Ichthyomyzon castaneus</i>	Chestnut Lamprey	S /	G4 / S2	0	1	0	0	0
	Moderate-size creeks, large rivers, and reservoirs. Substrate consists of gravel and rubble with areas of sand and silt. Larvae require clear streams with stable bars of silt, sand and organic detritus (Becker 1983, Pflieger 1975, Rohde and Lanteigne-Courchere 1980, Scott and Crossman 1973, Smith 1979).									
Muhlenberg	Fishes	<i>Lepomis miniatus</i>	Redspotted Sunfish	T /	G5 / S2	2	0	0	0	0
	OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLIEGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1993).									
Muhlenberg	Amphibians	<i>Cryptobranchus alleganiensis alleganiensis</i>	Eastern Hellbender	S / SOMC	G3G4T3T4 / S3	1	0	0	0	0
	CONFINED TO RUNNING WATERS OF FAIRLY LARGE STREAMS AND RIVERS.									
Muhlenberg	Amphibians	<i>Hyla avivoca</i>	Bird-voiced Treefrog	S /	G5 / S3	1	0	0	0	0
	IN KENTUCKY, THE SPECIES APPEARS TO BE RESTRICTED TO FLOODPLAIN WETLANDS, ESPECIALLY THOSE DOMINATED BY BALD CYPRESS, WATER TUPELO, GREEN ASH, AND BUTTONBUSH.									
Muhlenberg	Reptiles	<i>Nerodia erythrogaster neglecta</i>	Copperbelly Water Snake	S / SOMC	G5T2T3 / S3	5	1	0	1	0
	Floodplain sloughs, swamps, hardwood forest and adjacent uplands. Seems to do well in KDFWR moist soils management units on Sloughs WMA, Henderson Co. Seems to avoid wetlands impacted by acid mine drainage (Fide H. Bryan).									

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Muhlenberg	Reptiles	<i>Thamnophis sauritus sauritus</i>	Eastern Ribbon Snake	S /	G5T5 / S3	4	0	0	0	0
		Variety of semi-open habitats, generally in weedy or brushy growth along the margins of sloughs, marshes and other aquatic habitats.								
Muhlenberg	Breeding Birds	<i>Ammodramus henslowii</i>	Henslow's Sparrow	S / SOMC	G4 / S3B	3	0	0	0	0
		OPEN FIELDS & MEADOWS W/ GRASS INTERSPERSED W/ WEEDS OR SHRUBBY VEG., ESPEC. IN DAMP OR LOW-LYING AREAS, ADJACENT TO SALT MARSH IN SOME AREAS. IN MIGRATION & WINTER ALSO IN GRASSY AREAS ADJACENT TO PINE WOODS OR SECOND-GROWTH WOODS.								
Muhlenberg	Breeding Birds	<i>Asio flammeus</i>	Short-eared Owl	E /	G5 / S1B,S2N	1	0	0	0	0
		Open country: Prairie, meadows, tundra, moorlands, marshes, savanna, dunes, fields, open woodland. Roosts by day on ground, on low open perch, under low shrub, or in conifer. Reported from "forest" habitats in HI.								
Muhlenberg	Breeding Birds	<i>Asio otus</i>	Long-eared Owl	E /	G5 / S1B,S1S2N	1	0	0	0	0
		NEED INFO.								
Muhlenberg	Breeding Birds	<i>Chondestes grammacus</i>	Lark Sparrow	T /	G5 / S2S3B	1	0	0	1	0
		Open situations with scattered bushes and trees, prairie, forest edge, cultivated areas, orchards, fields with bushy borders, and savanna (B83COM01NA).								
Muhlenberg	Breeding Birds	<i>Circus cyaneus</i>	Northern Harrier	T /	G5 / S1S2B,S4N	2	0	0	0	0
		MARSHES, MEADOWS, GRASSLANDS, AND CULTIVATED FIELDS. PERCHES ON GROUND OR ON STUMPS OR POSTS. WINTER ROOSTS IN UNDISTURBED FIELDS OR MARSHES (B82EVA01NA).								
Muhlenberg	Breeding Birds	<i>Cistothorus platensis</i>	Sedge Wren	S /	G5 / S3B	1	0	0	0	0
		Grasslands and savanna, especially where wet or boggy, sedge marshes, locally in dry cultivated grainfields. In migration and winter also in brushy grasslands. (B83COM01NA)								
Muhlenberg	Breeding Birds	<i>Gallinula chloropus</i>	Common Moorhen	T /	G5 / S1S2B	1	0	0	0	0
		Freshwater marshes, canals, quiet rivers, lakes, ponds, mangroves, primarily in areas of emergent vegetation and grassy borders; taro patches in HI.								
Muhlenberg	Breeding Birds	<i>Haliaeetus leucocephalus</i>	Bald Eagle	T / LT	G5 / S2B,S2S3N	1	0	0	0	0
		PRIMARILY NEAR SEACOASTS, RIVERS, AND LARGE LAKES. PREFERENTIALLY ROOSTS IN CONIFERS IN WINTER IN SOME AREAS. IN WINTER, MAY ASSOCIATE WITH WATERFOWL CONCENTRATIONS OR CONGREGATE IN AREAS WITH ABUNDANT DEAD FISH (B82GRI01NA).								
Muhlenberg	Breeding Birds	<i>Ixobrychus exilis</i>	Least Bittern	T /	G5 / S1S2B	1	0	0	0	0
		TALL VEGETATION IN MARSHES, PRIMARILY FRESHWATER, LESS COMMONLY IN COASTAL BRACKISH MARSHES AND MANGROVE SWAMPS. PREFERENCE FOR MARSHES WITH SCATTERED BUSHES OR OTHER WOODY GROWTH. INFREQUENTLY IN MARSHES <5 HA IN IA (A86BRO02NA).								
Muhlenberg	Breeding Birds	<i>Pandion haliaetus</i>	Osprey	T /	G5 / S2B	2	0	0	0	0
		Primarily along rivers, lakes, and seacoasts, occurring widely in migration, often crossing land between bodies of water (B83COM01NA).								
Muhlenberg	Breeding Birds	<i>Riparia riparia</i>	Bank Swallow	S /	G5 / S3B	1	0	0	0	0
		OPEN AND PARTLY OPEN SITUATIONS, FREQUENTLY NEAR FLOWING WATER (B83COM01NA).								
Muhlenberg	Breeding Birds	<i>Vireo bellii</i>	Bell's Vireo	S / SOMC	G5 / S2S3B	4	0	0	0	0
		DENSE BRUSH, MESQUITE, STREAMSIDE THICKETS, AND SCRUB OAK, IN ARID REGIONS BUT OFTEN NEAR WATER (B83COM01NA); MOIST WOODLAND, BOTTOMLANDS, WOODLAND EDGE, SCATTERED COVER AND HEDGEROWS IN CULTIVATED AREAS. OPEN WOODLAND, BRUSH IN WINT.								
Muhlenberg	Mammals	<i>Myotis austroriparius</i>	Southeastern Myotis	E / SOMC	G3G4 / S1S2	1	0	0	0	0
		THE SOUTHEASTERN MYOTIS USES PRIMARILY CAVES FOR HIBERNACULA AND SUMMER MATERNITY AND ROOSTING SITES.								
Muhlenberg	Mammals	<i>Myotis grisescens</i>	Gray Myotis	T / LE	G3 / S2	1	0	0	0	0
		Gray bats use primarily caves throughout the year, although they move from one cave to another seasonally. Males and young of the year use different caves in summer than females.								
Muhlenberg	Mammals	<i>Nycticeius humeralis</i>	Evening Bat	S /	G5 / S3	1	0	0	0	0
		THE EVENING BAT IS A COLONIAL SPECIES THAT ROOSTS IN TREES AND HOUSES. IT APPARENTLY MIGRATES SOUTHWARD IN WINTER.								

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Muhlenberg	Communities	<i>Bottomland hardwood forest</i>		/	GNR / S2	1	0	0	0	0
Muhlenberg	Communities	<i>Cypress swamp</i>		/	GNR / S3	1	0	0	0	0